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ZONE A

CHLOROBENZENE

INDUSTRIAL HYGIENE

AND

RCRA

TRAINING OUTLINE

APPENDIX

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DEPARTMENT 233 MCB)

BENZENE HYGIENE AND ENVIRONMENTAL TRAINING PROGRAM

Conducted	by:	Date:	

Cutline

- Review 1982 performance in training and implementation of Benzene Hygiene Program.
- Conduct individual fit of respirator of each person in attendance.
- Using video tape, show health hazards of Benzene, production work practices and details, medical surveillance, toxicoloty, air monitoring, personal protective equipment and personal hygiène.
- 4. Instructions on care of personal respirator, including cartridge change weekly, and respirator change monthly.
- 5. Hand out Safety Procedure booklet, discuss section on personal protective equipment when sampling, loading and unloading cars, drums, etc. and breaking into lines. Strong emphasis on handling and drumming residue. Instruct noncompliance on use of personal protective equipment can result in disciplinary action.
- 6. Discuss RCRA: new government regulations:
 - A. Residue drumming facilities stop drumming when leaks occur notify supervision immediately.
 - B. Periodic inspection of stored residue drums.
 - C. Recording and verification of tank levels when transferring in or out of tanks. Recording and reporting any leaks at pumps, valves, or piping.
 - D. In event of spills, contact supervision immediately to assist in containment or disposal or a spill. Also contact plant environmental group.
- 7. Discuss plant Sewer Emergency Plan.

Hand out Department 233 Emergency Plan, thoroughly discuss checklist for checking possible sources of Benzene getting into plant sewer system and what to do.

8. Review program with question and answer period.

SEWER EMERGENCY ACTION PLAN

A plant sewer emergency is basically a flammable sewer situation. It will be declared throughout the plant by the appropriate fire call for the plant zone affected. Department personnel should intediately and automatically carry out the following Sewer Emergency Action Plan.

F E Howard

Fugust 6, 1982

Fugust 6, 1982

E. valentine
E. valentine
Zone A. Shift Supvs.
Chloropenzene Complex (Revision 1)

Night Super htendents
W. Cohant
D. Mayer

S. Shythe
A. Johnston

Attached please find the revised "Chlorobenzene Sewer Emergency Action Plan". The previous plan is obsolete as a result of the recent commissioning of the benzene collection system (CEA 3322). Please review this revised plan with your personnel.

Let's plan on a dry run of this action plan in the first week of September (provided I'm mobile). Any problems or difficiencies should be uncovered and can then be accressed.

B E Howar

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CHLOROBENZENE SEWER EMERGENCY ACTION PLAN (Revision 1 - July 30, 1982)

mistor-cally the potential loss of free organics from the Chlorobenzene complex has been recognized as a possible contributor to abnormal sewer conditions (flammable mixture. Such a loss would have its greatest potential impact on the west plant sewers. This risk has been substantially reduced through the recent installation of a "collection pit" and related separation equipment. This system pretreats all department effluent for recovery of free organics prior to release to the plant sewer system.

There are three effluent streams (reference attached sewer avoit) from Departments 233 and 218, which could be organic laden:

- 1. Underflow from light layer separator (Item 187)
 - exits on north side of the department and enters plant sewers at Box 3-G, (sealed lid) and joins the main flow at Box 33-F (corner of "D" and 4th Streets).
- 2. Overflow from heavy layer separator (Item 190)
 - exits on south side of the department and enters plant severs at Box 33-C-1 (3rd Street).
- Incerflow from collection pit (Item 182)
 - exits south side of the department and enters plant sewers at Box 33-0-1 (3rd Street).

In the event the west plant sewers are "hot" the following actions are to be implemented:

Profile the flammability of sewer boxes on D. Street (Boxes 33-F, 33-E, 33-C, and 33-B). The intent is to dentermine the most probable exit point from the department e.g. higher readings near 3rd Street imply losses from the south side of the department). The implementation order of the following checks will be based on this profile.

CHLOROBENIENE SEWER EMERGENCY ACT ON PLAN (Revision 1 - July 30, 1982)

- I enforme specific gravity of the heavy laver separtor overflow is within normal range (1.0 & .05 at 25°D) sample the stream and observe for organic presence (emulsion or two phase layer). If organics are present directly the flow to the collection pit.
- 3. Verify the specific gravity of the light layers underflow is within normal range (1.0 ± .05 at 25°C). Sample the stream and observe for organic presence (emulsion or two phase javen. If organics are present directs the flow to the collect or pit.
- werify the collection pit operations are normal (i.e. pumps are in operation and are moving liquid). If the pit is underflowing (level > 100%) as a result of rain, 218 drowning jet, or pump failure, sample the quality of the underflow at the vent (located east of the benzene trap compartment). Observe for organic presence (emulsion or two phase layer), if organics are present, then the pit's capacity to contain organics has been exceeded. Immediate steps to identify and correct the process loss must be taken. A check list of octential loss points follows:

Process Source Checklist

- a. Check "free" benzene quantity in 113 benzene/water separator great (normal ≤ 1%).
- b. Check the pressure at the 113 benzene/water separator (normal 1-2 psig). High pressure may be an indication of poor condensation and can be caused by:
 - 11 nigh benzene column vent temperatures
 - 1) loss of water flow to the benzene column vent condenser
 - 3 loss or reduced MCB flow to the separator vent condenser.

Partirection of efficient from 187 tank and 190 tank in response to out of range specific gravity is automatically initiated by interiors. Confirmation of proper action must be made. Manual red rection can be initiated by panel mounted selector switch sed rection. Is a temporary solution to an organic loss problem the initiated by panel mounted selector switch sed rection. Is a temporary solution to an organic loss problem to correct the layer inversion or accumulation in the separators to correct the layer inversion or accumulation in the separators to mplemented. Substained department operations require that normal effluent direction to the plant sewers be resumed ASAP.

CHICROBENIENE SEWER EMERGENCY ACTION PLAN (Revision 1 + July 30, 1982)

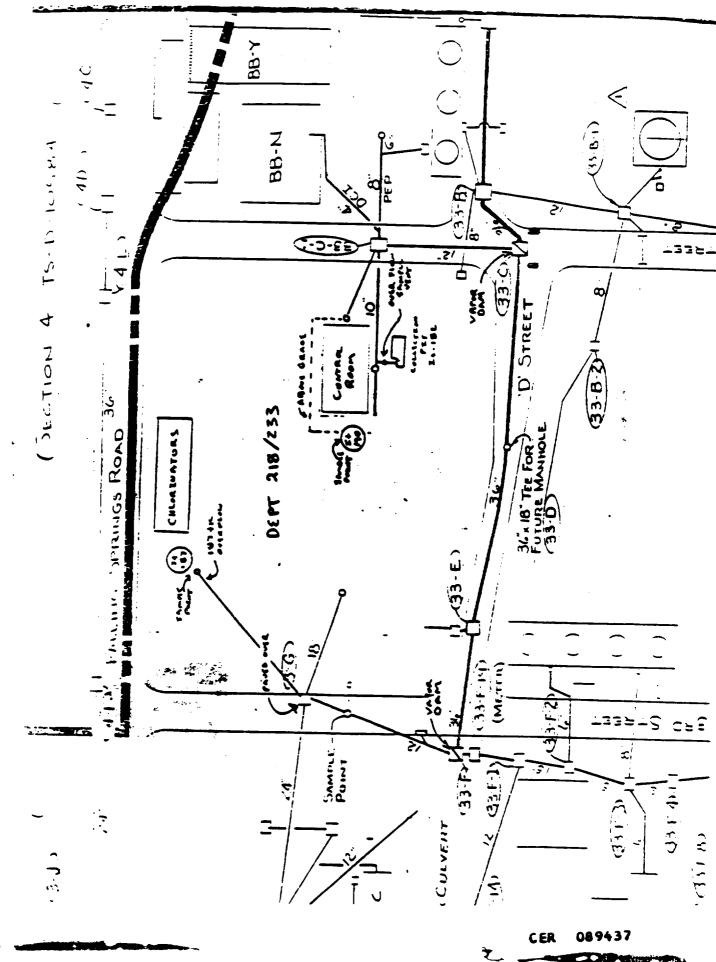
- of pressures/temperatures are excessive, reduce column feed rates.
- c. f off gas HCl is being sewered, check gas temperature. If temperature is high (≥ -10°C), determine cause of poor cooling and correct (compressor problem or cooler freeze up). Reduce chlorinator rate if cooling can not be restored.

in the event the east plant sewers are "hot", investigate operations at the E=Still.

- Check the jet barometric leg effluent for excessive loss of organics to the sewer. If organics are present take actions to correct. Shut down of the E-Still is an alternative.
- 2. Survey tank car loading spots and storage areas for leaks to the sewer. Contain any spills.

As soon as time permits, the Emergency Control Center should be informed of status of action plans and corrective actions in effect.

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